



## WHAT IS CLAIMED IS:

2 intramedullary rod kit for fixation of a distal radius fracture, the intramedullary rod kit comprising:

an intramedullary rod comprising:

a diaphyseal segment including at least one first mounting section configured to receive a tensioning device,

a middle segment; and

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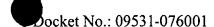
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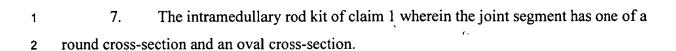
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a joint segment including at least one second mounting section configured to receive a tine,

wherein the diaphyseal segment, the middle segment, and the joint segment define a curved configuration that is substantially similar to a curvature of the intramedullary canal of a human radius.

- 2. The intramedullary rod kit of claim 1 wherein the joint segment includes an opening into a longitudinal channel that extends along a portion of a length of the intramedullary rod.
- 3. The intramedullary rod kit of claim 2 wherein the longitudinal channel includes a threaded portion.
- 4. The intramedullary rod kit of claim 1 wherein an outer diameter of the
   intramedullary rod varies between approximately 10 mm and 25 mm at the joint segment and
   approximately 2 mm and 9 mm at the diaphyseal segment.
- 5. The intramedullary rod kit of claim 1 wherein an outer diameter of the intramedullary rod varies between approximately 12 mm and 15 mm at the joint segment and approximately 3 mm and 5 mm at the diaphyseal segment.
- 1 6. The intramedullary rod kit of claim 1 wherein an outer diameter of the intramedullary rod varies between approximately 14 mm at the joint segment and approximately 3 mm at the diaphyseal segment.





- 1 8. The intramedullary rod kit of claim 1 wherein the diaphyseal segment has a round or a generally round cross-section.
- 1 9. The intramedullary rod kit of claim 1 wherein a length of the rod is between approximately 50 mm and 100 mm.
- 1 10. The intramedullary rod kit of claim 1 wherein a length of the rod is 2 approximately 80 mm.

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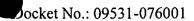
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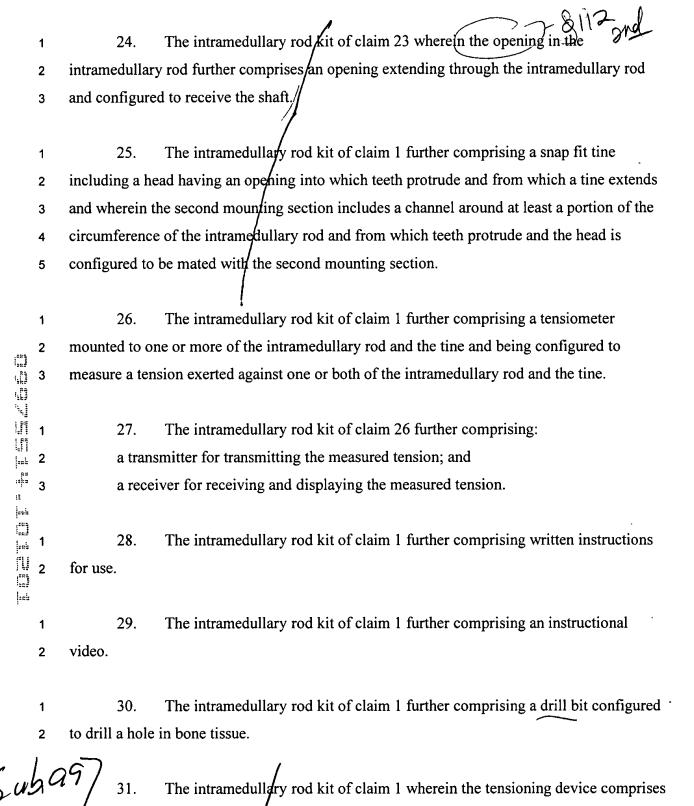
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- 11. The intramedullary rod kit of claim 1 wherein the first mounting section comprises at least one channel having a threaded inner diameter.
- 12. The intramedullary rod kit of claim 11 further comprising at least one bone screw configured to be passed through the first mounting section to mount the intramedullary rod to a diaphyseal portion of the radius.
- 13. The intramedullary rod kit of claim 12 wherein the bone screw is one of a unicortical bone screw and a bicortical bone screw.
- 1 14. The intramedullary rod kit of claim 2 further comprising a guide configured to 2 be mounted to the intramedullary rod and configured to orient drill guides to be collinear with the first mounting section and the second mounting section of the intramedullary rod.
- 1 15. The intramedullary rod kit of claim 14 wherein the guide is mounted to the intramedullary rod by insertion of a portion of the guide into the longitudinal channel in the intramedullary rod.

- The intramedullary rod kit of claim 15 wherein the portion of the guide that is 16. 1 inserted into the longitudinal channel is threadably inserted into the longitudinal channel. 2 The intramedullary rod kit of claim 1 wherein the tine comprises a shaft and is 17. 1 mounted to the rod in the second mounting section. 2 Subab The intramedullary rod kit of claim 17 wherein the second mounting section 18. comprises a channel that includes a threaded portion and the time includes a first nonthreaded section and a second threaded section that is configured to be threadably mated to 3 the threaded portion of the channel. Live 4 The intramedullary rod kit of claim 17 wherein the second channel includes a 1 threaded portion and the tine includes a first threaded section and a second threaded section 2 that is configured to be threadably mated to the threaded portion of the channel? In the The intramedullary rod kit of claim 19 wherein the first threaded section 20. includes threads that are configured to be threadably mated with the bone fragment. The intramedullary rod kit of claim 1 wherein the tine comprises an insert from which at least one shaft extends and the insert is configured to be mated to the second, mounting section.
  - 22. 1 with the insert. 2
- The intramedullary rod kit of claim 22 wherein the insert includes a channel xv configured to receive a screw and the intramedullary rod includes a threaded channel
  - configured to receive the screw.

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a fie band fastener including a/tie band, a slidable tab, and a stop.

- The intramedullary rod kit of claim 1 wherein the tensioning device comprises 32. 1
- a molly bolt system that includes a head, a nut, and one or more flexible arms extending
- between the head and the nut. 3
- 33. The intramedullary rod kit of claim 1 wherein the diaphyseal segment of the 1
- intramedullary rod comprises a dimpled surface. 2

tensioning device, and/or the tine are coated with a therapeutic agent.

Adda The intramedullary rod kit of claim 1 wherein the intramedullary rod, the